

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
15 September 2005 (15.09.2005)

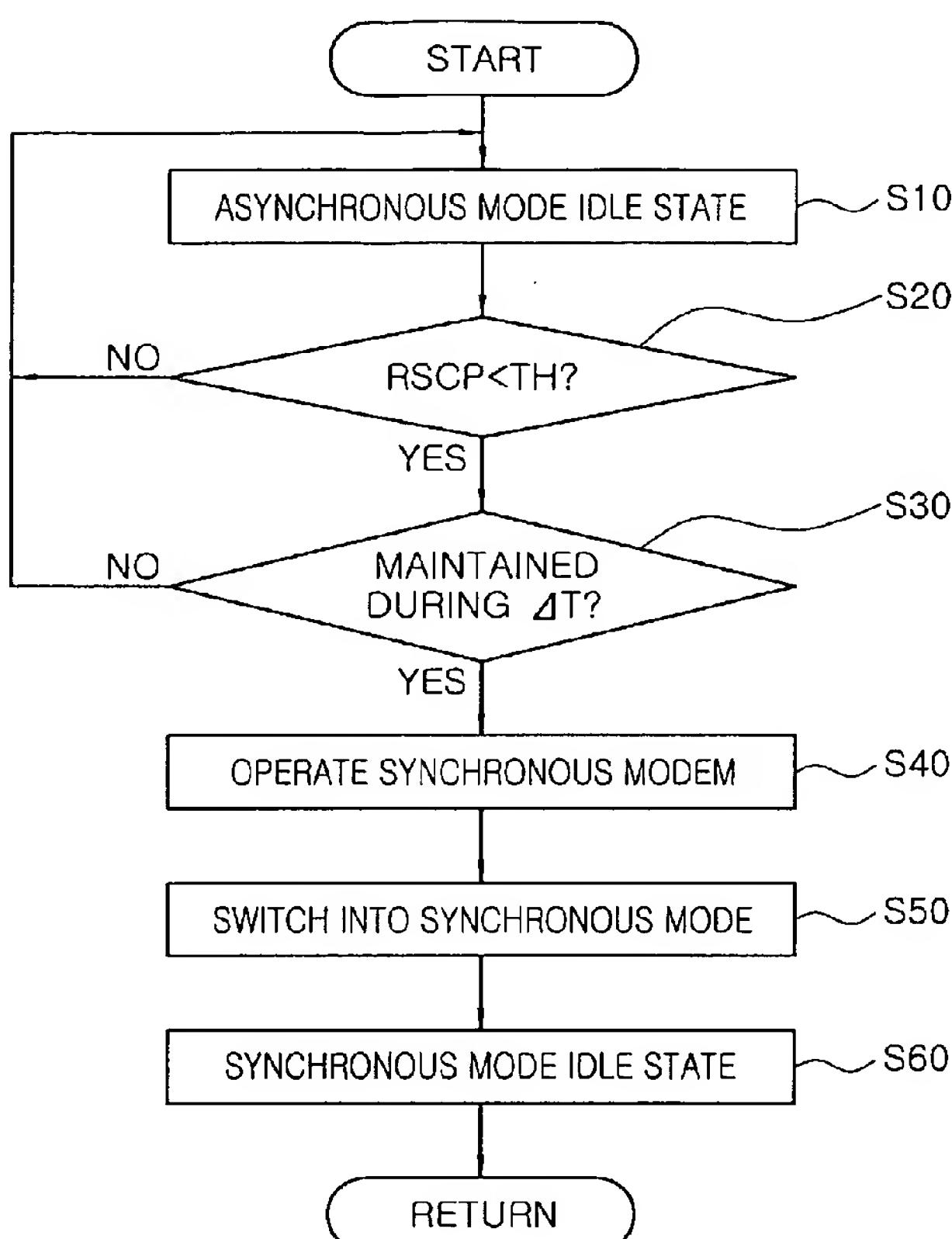
PCT

(10) International Publication Number
WO 2005/086378 A1

- (51) International Patent Classification⁷: **H04B 7/26**
- (21) International Application Number: **PCT/KR2005/000600**
- (22) International Filing Date: 4 March 2005 (04.03.2005)
- (25) Filing Language: Korean
- (26) Publication Language: English
- (30) Priority Data:
- | | | |
|-----------------|---------------------------|----|
| 10-2004-0014700 | 4 March 2004 (04.03.2004) | KR |
| 10-2004-0022954 | 2 April 2004 (02.04.2004) | KR |
| 10-2004-0022949 | 2 April 2004 (02.04.2004) | KR |
| 10-2004-0033866 | 13 May 2004 (13.05.2004) | KR |
- (71) Applicant (for all designated States except US): **SK TELECOM CO., LTD. [KR/KR]**; 99, Seorin-dong, Jongno-gu, Seoul 110-110 (KR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **KIM, Nam-Gun** [KR/KR]; 1469-19, Seocho 3-dong, Seocho-gu, Seoul 137-073 (KR). **KIM, Young-Lak** [KR/KR]; 104-1306, Sinil Apt., Eonnam-ri, Guseong-eup, Yongsan-si, Gyeonggi-do 449-915 (KR). **KIM, Hyun-Wook** [KR/KR]; 701-202, Jeongdeunmaeul Hanjin Apt., 194, Jeongja-dong, Bundang-gu, Seongnam-si, Gyeonggi-do 463-757 (KR). **HAN, Chang-Moon** [KR/KR]; 108-506, Gwanak Hyundai Apt, 407, Sangdo 5-dong, Dongjak-gu, Seoul 156-781 (KR).
- (74) Agent: **NAM, Sang-Sun**; 9th Fl., Maekyung Media Center, 30, 1-ga, Pil-dong, Jung-ku, Seoul 100-728 (KR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,

[Continued on next page]

(54) Title: MULTI-MODE MULTI-BAND MOBILE COMMUNICATION TERMINAL AND MODE SWITCHING METHOD THEREOF



(57) Abstract: Disclosed is a multi-mode multi-band mobile communication terminal and a mode switching method thereof wherein a mode switching can be performed between an asynchronous network and a synchronous network by minimizing interruption in communication. According to the switching method of a multi-mode multi-band mobile communication terminal, the power of a signal received from an asynchronous network or a synchronous network is measured and the measured power of the received signal drives a modem portion, thereby switching the mode of the mobile communication terminal.



KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

- (84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.